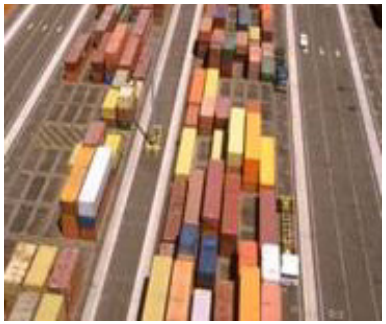


Goods Movement Truck Program: Model for Regional Partnership

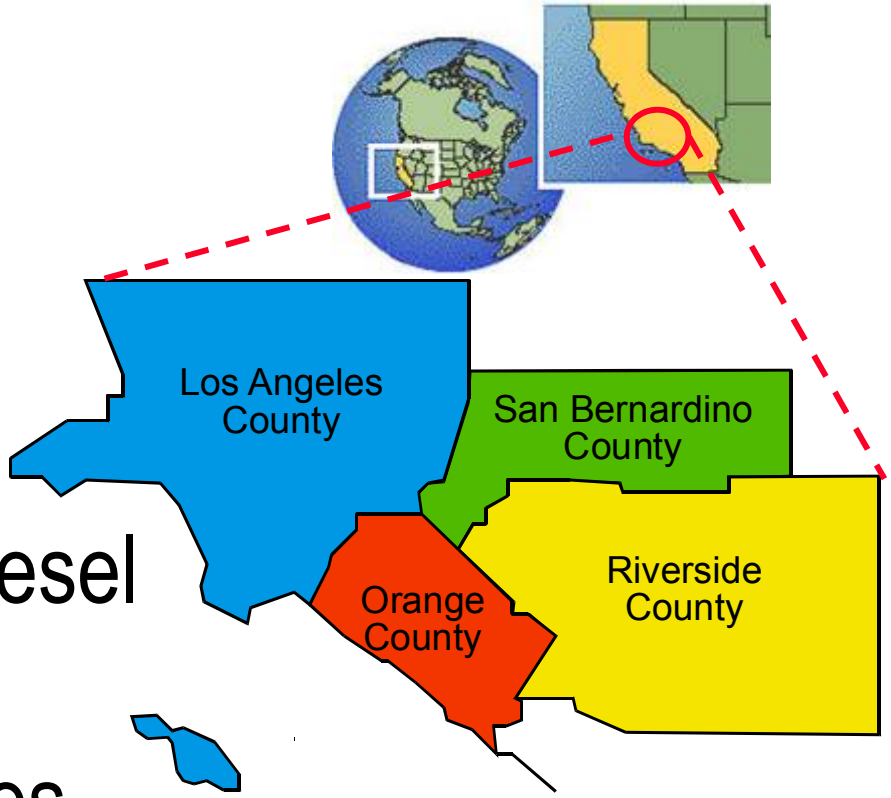
July 13, 2010

Matt Miyasato, Ph.D.
Assistant Deputy Executive Officer
South Coast Air Quality Management District

AQMD Background

South Coast Basin:

- 4-county region
- 11,000 sq. miles
- 16+ million residents
- Hundreds of thousands diesel vehicles
- Millions of gasoline vehicles
- Combined Ports of Long Beach and Los Angeles are nation's largest cargo gateway



Most Polluted Cities

Los Angeles – Long Beach – Riverside

#1 in Ozone Pollution

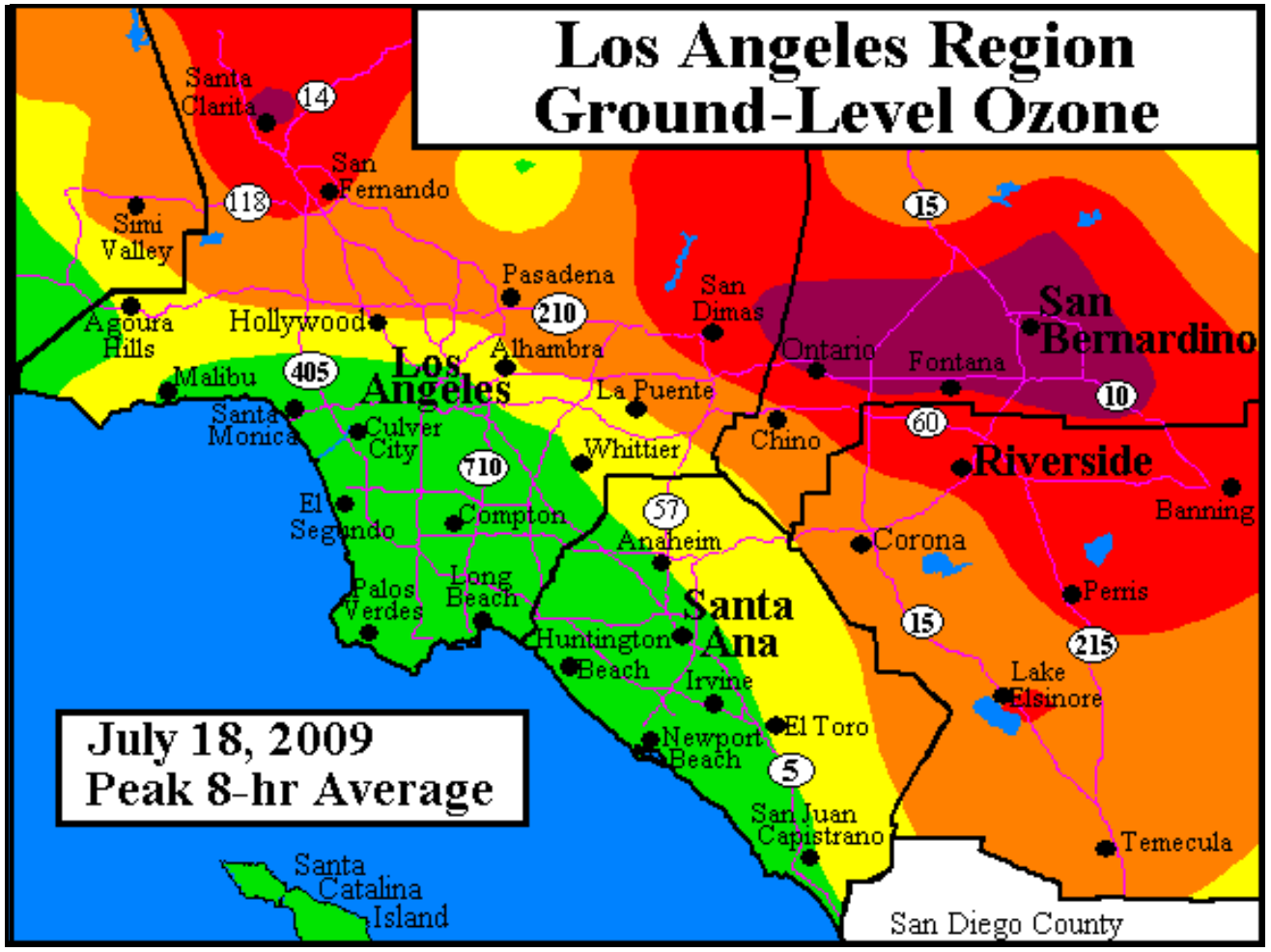
#3 in Year-round Particle Pollution

#4 in Short-term Particle Pollution

AMERICAN LUNG ASSOCIATION.

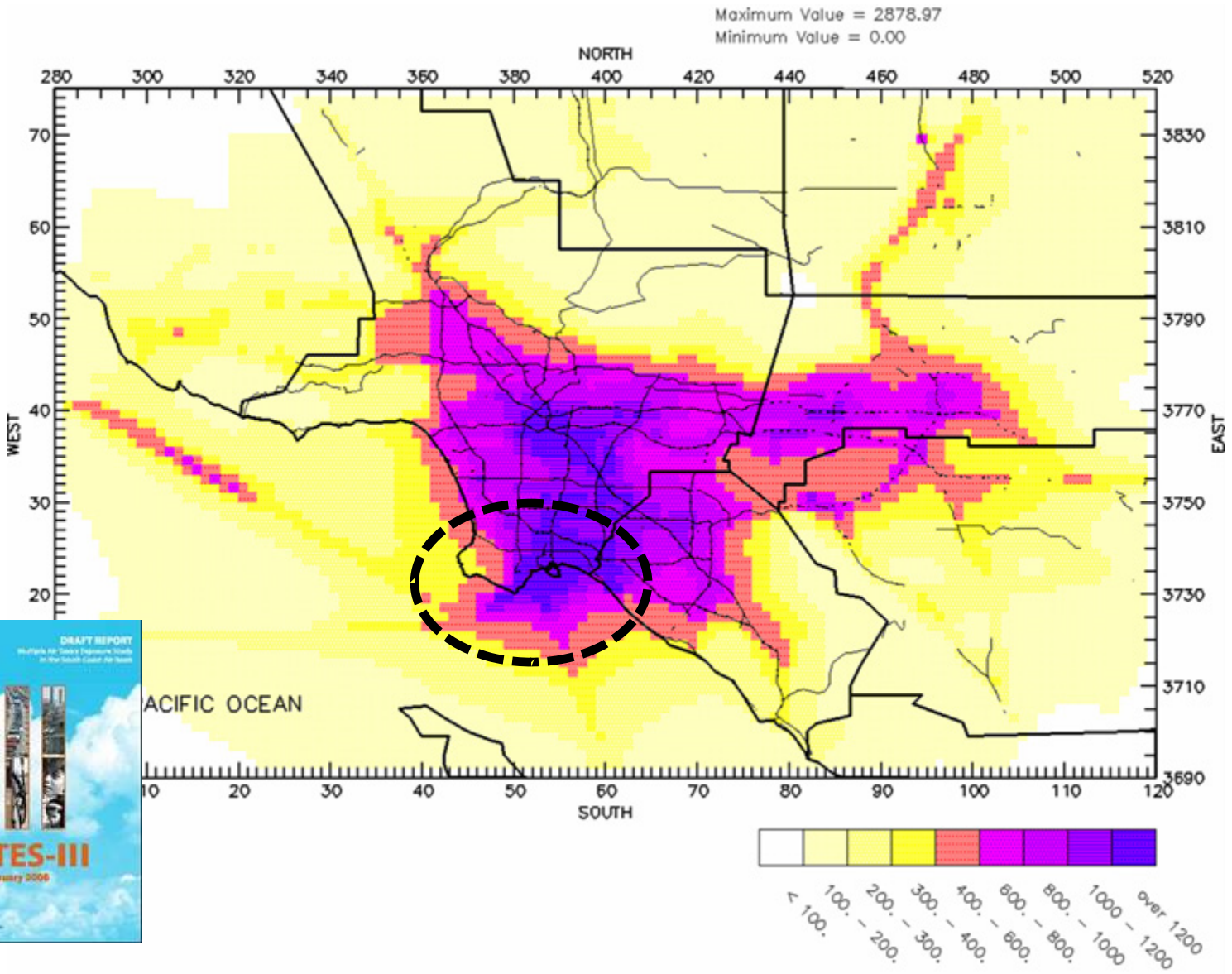
STATE OF THE AIR 2010

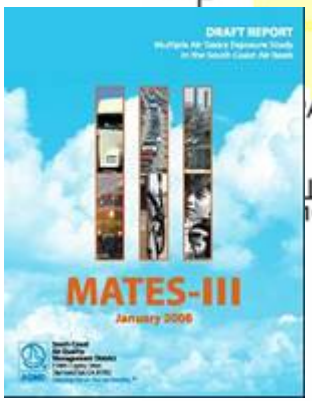
Ozone is Worst in the Nation



Good | Moderate | USG | Unhealthy | Very Unhealthy | Hazardous

Estimated Cancer Risk





Proposition 1B

- Approved by voters in 2006 to address impacts of goods movement
- $1 Billion over 4 years through bond sales
- Four trade corridors
- SCAQMD administering with Ports and CARB for South Coast corridor

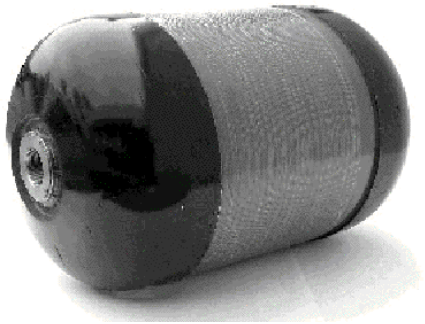
Clean Truck Program

- Prior to drayage trucks regulation (Jan 2010)
- 1,307 trucks
  - 854 diesel
  - 453 LNG

- Co-funding by AQMD, Ports, DOE and EPA for cleaner LNG trucks

Natural Gas Benefits

- 80% lower NOx
- 20-30% reduced GHGs
- Petroleum reduction
- Potential for renewable feedstock to achieve >90% GHG reduction
- Advancements in gaseous fuel components – H2 blends



Proposition 1B Program – Phase 2

- Goods movement and intermodal trucks
- Approved by AQMD Board June 4, 2010
- 480 trucks (1,000 backup)
  - ~ 350 diesel trucks
  - ~ 130 LNG trucks
- CEC cost-share for LNG ($100k/truck)
- Leveraging DOE and EPA funds

History of Collaboration

- Cummins Westport HPDI
- Hydrogen stations
- Transportation Electrification Plug-in Hybrid Trucks
- UPS Ontario station and Interstate Clean Truck Corridor
- DOE Natural Gas Engine solicitation

Successful Partnership Model

Existing Need and Demand

- Additional NG goods movement trucks
- Infrastructure expansion
- Advanced technologies – hybrids and biomethane

Thank You

www.aqmd.gov

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